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TITLE: ELECTROSTATIC RELAY

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INVENTOR-INFORMATION:

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APPL-NO: JP02167113

APPL-DATE: June 26, 1990

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ABSTRACT:

PURPOSE: To provide an electrostatic relay which is easy to be handled and needless to install a specific high voltage generating circuit by a user by setting a high voltage generating circuit to apply high voltage between electrodes unitedly with a relay.

CONSTITUTION: An insulating thin film 1g such as a silicon oxide film, etc., is formed on a silicon wafer in the same way as a movable electrode plate 1b and a movable contact layer 3 with almost U-shape is formed to give a contact plate 1c. A high voltage generating part 8 installed in the back side of a frame 1a is formed unitedly on the silicon wafer by patterning method, etc., and is composed of input terminal parts 8a, 8b to which input low voltage is applied, capacitor connecting terminals 9, 9... to connect external capacitors, a circuit part to increase voltage, and an applying part 8c to apply high voltage to the movable electrode plate 1b. Since a high voltage generating circuit to apply high voltage between electrodes is set in this electrostatic relay unitedly in this way, the electrostatic relay becomes easy to be handled and driven at low driving voltage with no need of installing a specific high voltage generating circuit.

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